Public Works (1911) Department.

G.O., No. 104 } 105 } I.

DATED 3-4-1911.

[Despatch Abstract.]

Electrical power from the Periyar waterfalls

Ordered that Messrs W. A. Beardsell & Co. be informed that the Govt are unable to consider any application for a concession to generate ——.

Letter to Messrs. W. A. Beardsell & Co., Madras.

[P. W. 2 (a). 2,000—8-7-07.]

Indexed 10/4/11

M.L.
5/4/11

Urgent

Stock Form No. 141.
10,000—12-1-09.

PUBLIC WORKS DEPARTMENT.

CURRENT No. 4161

ENCLOSURES. Plans No.
Others No.
Total

SPARE COPIES.

Received 190

Registered 190

CHIEF ENGINEER FOR IRRIGATION. 25 APR 1910 No. 1780/10 23/4/1910

Passed on by Registering Clerk ...
" " U. R. Clerk ...
" " Referencer ...
" " Record Superintendent.
" " Drafting Officer ...

E

To go to ... today
25-4-10

Subject.

Periyar Irrigation Water — Reports re the development of a scheme for the utilization of power-purposes of the fall of ——

No.

Station Madras, Dated the 22/4/1910.

From (Name) W. A. Beardsell & Co.

(Designation) Madras.

To The Chief Engineer / The Secretary to the Government of Madras,
Public Works Department.

Sir,

RK C.No. 2878 ... marked to C.E.S. This may be marked to M.E.S.

TR 25-4-10

BEARDSELL & Co.

Madras. 22nd April 1910
(POST BOX No 7.)

The Secretary to Government,
Public Works Department,
MADRAS.

SECRETARY TO GOVERNMENT 23 APR 1910

Sir,

We have the honour to report that we have succeeded in interesting London in the development of a scheme for the utilization for power purposes of the fall of Periyar irrigation water and we are of opinion that with Government encouragement and provided especially that Government make a reasonably prompt decision it will be possible not only to safeguard existing irrigation interests but also to increase the irrigation area.

We believe that in the following proposals the paramount interests of irrigation are fully guarded.

We propose to form a Company with sufficient capital to develop power from the Periyar lake, provided Government first grant an option of two years during which time the Company will carry out surveys and preliminary work.

For this option we should deposit with Government a reasonable moderate sum which shall be returned to the Company after certain progress has been made.

The Company shall be protected by Government in the area they develop as regards right to supply Hydro electric power.

The Company shall undertake :

1 To construct dams and tunnels that will utilize the waters of the Kullar river to the extent of adding to the Periyar

lake an equal or superior volume of water to that abstracted from it during the dry months.

2 That one or two tunnels shall be driven through the mountain say of about 8 ft diam. to convey the water to the turbines thus utilizing the lake only aa a reservoir.

3 That an installation of 20,000 H. P. shall be erected delivering its power at high voltage at a station in the neighbourhood of Dindigul.

There it will be divided part going to Coimbatore part to Trichinopoly and Tanjore; Madura and Tinnevelley with powers to use the spare or intermittent energy at the dividing station for chemical products.

The terms on which Government might lease the concession might include the Company the placing at disposal of Government during 8 months of greatest water supply a certain per centage of H. P. at a nominal charge of Rs 35/- per annum for irrigation purposes. This would enable Government to put to work irrigation pumps at a small cost for initial outlay on machinery, and at a very small cost for power, and at the most suitable points for distribution.

Government outside this would permit the Company to sell its power for the best price it could obtain, such price being of course regulated by the cost of other available power producers.

The objects of the Company would be the supply of power to Mills at Coimbatore, Madura, Tricinopoly, Tinnevelley etc., to the electric lighting and tramway systems of these towns and to the electrification of S. Indian Railway as far as the

Railway Company are prepared to entertain same. Should this be successful it would be then possible to consider extending to Madras and Pondicherry taking the large weaving district of Conjeeveram on the way for Mill power and later possibly these towns might accept light and power for trams, as well as the S. I. R. accepting electrification as far as Madras. Any spare or intermittent power again being applied to the production of Alumina or Nitrates or any other product to which it could be applied.

As power is taken up for non intermittent industrial operations further installments of units of 5000 H. P. could be added to the scheme so as fully to utilize the power available in the manufacture of electrical products during 8 months of the year.

It may be considered in view of the large quantity of material to be transported if the Company shall be permitted to build a light railway along the road leading from Dindigul to the plain at the foot of the Periyar. Whilst it might not pay the Company to build such a line for this one purpose the concession of rents for such a time as might be deemed sufficient to recoup capital outlay might in the end benefit alike the Company and the district through which the railway had to pass.

It is difficult at all times to interest financiers outside India in Indian industrials and we would ask that having secured this interest that Government will come to a reasonably prompt decision so that the present opportunity may not be lost.

We have the honour to be,

Sir,

Your most obedient servants,

6

Stock Form No. 141.
20,000—8-12-09. 1780/10

PUBLIC WORKS DEPARTMENT.

CURRENT No ~~976~~ / 976

ENCLOSURES.	Plans No	Received	19 .
	Others No.	Registered	19 .
	Total	Passed on by Registering Clerk	26.1.11
SPARE COPIES.		" " U. R. Clerk	
		" " Referencer	...
		" " Record Superintendent.	
		" " Drafting Officer	...

JOINT SECRETARY TO GOVERNMENT 26 JAN 1911 P.W.D., IRRIGATION BRANCH

Subject.

Periyar Irrigation water:-

Inviting attention to their letter about the development of a scheme ~~about~~ regarding Periyar Irrigation water.

No.

Station Madras, *Dated the* 25th Jany 1911.

From (Name) W. A. Beardsell & Co

(Designation)

To *The Chief Engineer* / *The Secretary* *to the Government of Madras.*

Public Works Department,

Sir,

D.I

The connected file is linked with Mr. Garrett's application for ~~of~~ Periyar water Power sent to Revenue on 10. 1. 1911. The return of the file may be awaited

Yes [signature] 30/1/11

GW 27. 1. 11

[initials] ~~27~~ 30. 1. 11

× file since recd to P.W.D. I 4-2-11

Very urgent

W.A. BEARDSELL & Co.

Madras. 25th January, 1911.
(POST BOX No 7.)

26 JAN 1911

The Secretary to Government,

Public Works Department,

MADRAS.

Sir,

We have the honour to invite your attention to our letter of 22nd April 1910 to which we have not yet been favoured with a reply.

C 2e 4161/10
Development of a scheme for the utilization for power purposes of the supply of the [illegible] Irrigation water

We have the honour to be,

Sir,

Your most obedient servants,

Pereira Power

P.W.D., IRRIGATION BRANCH.

Messrs W A Beardsell + Co Application for …

NOTES

CONNECTED WITH

G.O., No. I., dated 190 .

Notes edited.

Initials of the Clerk.

PUBLIC WORKS DEPARTMENT

(Irrigation Branch).

(Current No. 1780/10)

Application from W.A.Beardsell & Co., for concession to generate electrical power from the - Periyar falls.

From W. A. Beardsell & Co., dated 22nd April 1910.

I.

This file is now submitted with the Periyar Power Scheme file.

In Prof. Forbes' paper before the Society of Arts - 25th November 1898 Journal No.2401 --- Vol.XLVII on Long distance transmission of power he makes the following remarks:-

Flag V (Not put up by P.W.D.)

In the case of the Niagara Falls the following financial considerations ruled the conditions.- "It is always (more profitable to bring works) requiring power to the electric source of power, than to transmit the power to a distance provided and in most schemes this is a large I F - You can find consumers to come to your locality." He goes on to say that of all industries to which electric power is applicable Gold mining is one which has come mostly to his notice as one wanting a <u>continuous</u> supply of power day and night. He also remarks that "Water "falls will be valuable assets in the future. At "present the difficulty of using this power - "generally lies in the fact that there is no demand "for power in the neighbourhood. Some industries "like those connected with aluminium and carbide "of calcium are ready to go considerably out of "their way to plant their works near a source of "power. <u>There are not many such industries.</u>"

He also states that at some Gold mines 100 £ per H.P. per annum "<u>continuously</u>" would be paid for Electric Power and says that Gold mining would be

Yes but nothing but Gold Mines can afford to pay such rates.

(Ind) C.A.S.
10-5-10

the principal industry to be benefited by the long distance transmission of Electric Power. Not all his eloquence however has persuaded any financier to harness the Nile cataracts.

Regarding continuous supply please see Prof. Unwins Memo.No.3, para 1 - p.9 of Notes on utilization of water Power at Periyar put up below. See also the last para of his note. For orders.

(Ind) J.M.L.
9-5-10.

The want of a continuous supply has been a great obstacle all through.
(Ind) C.A.S.
10-5-10

The paper by Prof.Forbes is interesting but rather out of date now. It however emphasises the necessity of the two great essentials for a -- successful power scheme i.e. -

(1) A continuous supply.

(2) A demand for the power.

(1) has in the case of the Periyar been always wanting and (2) has only recently begun to develop and is still somewhat in the clouds.

(Ind) C.A.S.
10-5-10.

Note for His Excellency.

The file relates to an application from Messrs Beardsell & Co. of Madras for a concession -- regarding Periyar Power.

Their application practically amounts to a request to allow them 2 years time during which to investigate for themselves Mr. Chatterton's scheme for diverting the Kallar from which it may be inferred that they want to ensure a continuous supply of power throughout the year and that they are not interested in the present intermittent supply. India having so far refused to accept Mr. Chatterton's scheme Government are not at present in a position to consider their request but I submit that in any case it would be very undesirable to allow any private firm to have anything to do with the diversion of the Kallar or any other works directly or indirectly -- connected with the Periyar Reservoir. Such a -- course could only I submit result in troublesome complications more especially as the tract of country involved belongs to a native State.
I recommend therefore that Messrs Beardsell & Co. may be informed that Government cannot consider any application for the use of the Periyar water power which involves the execution of any works by the applicants above the outfall of the tunnel...

As the file relating to Mr. Garrett's application is being submitted to H.E. to-day I send this with it direct for H.E's information and orders.

AS
10/5/10

A.

CIRCULATED IN
Box No. 19
on 11.5.10

Rec. 14/5

Proposed answer. as at

A. approved.
Govt. in the interests of irrigation must retain control of the out flow at the head of the tunnel.

[signature] 14.5.10

Draft acc'd
[initials]
17/5

W.D.

A draft order with letter to the firm is submitted.

[initials]
18.5.10.

To Revenue for perusal before issue

[initials]
21/5/10

To Rev. u.o

Engr. No. M.C. 1780/10-1
31-5-10

ENUF C
1001
Regd 31-5-10

Revenue Departt.

To under secretary.

It is submitted that the draft order may be accepted in this department.

JOINT SECRETARY TO GOVERNMENT. P.W.D. IRRIGATION BRANCH. 27 JUN 1910

GPV 4.6.10

Ks 9.6.10

[illegible] 11.6.10

[illegible]

[illegible] 11.6.10

Perhaps this might wait till a decision has been come to as to the reply to be made to India on Mr. Garrett's applicn.[x] If it is decided to recommend advertisemt., Messrs Beardsell could be so informed.

x (* File was returned to P.W.D. I. on 4-2-11 + is not now put up. G. of I. has been addressed in P.W.D.)

Ordered by 'I' to [illegible] may

[illegible] 2.7.10

I think the draft order is all right. Beardsell & Co's present application cannot be entertained. They want to construct dams & [illegible] to divert nullas. If India agrees to invite tenders there will be nothing to prevent Beardsell & Co making their tender

[illegible] 2.3.11

DI submitted

[illegible] 7.3.11

[illegible] 7.3.11

13

NOTES. Page 6

The draft order may issue at once with the approval of Revn. There is no reason why Messrs Beardsell should not be given their reply

HC
9/3/11

To Revn. u.o.

Despatched 1780/10
9-3-11

SECRETARY TO GOVERNMENT
10 MAR 1911
REVENUE DEPARTMENT

REVENUE-B
0408

Regd. 10/3/11

Revenue Dept.

To Under Secretary

It is submitted that the P.W.D. draft below may be accepted.

15.3.11

15.3.11

Secy
17.3.11

H.M. should see

18/3

Box No. 35
Circulated 20-3-11
Returned 21-3-11

21.3.11

Final
21/3

P.W.D. u.o.

21/3

Rev. u.o. 408B/11-1
22.3.11.

M.E.J.
23/3/11

JOINT SECRETARY TO GOVERNMENT
23 MAR 1911
P.W.D., IRRIGATION BRANCH.
Rec 1780/10

14

NOTES.

Fil[e] below [illegible] I.

P. W. D. (Irrgn)

D. I

The draft order may now issue

[initials] 24.3.11

[initials] 24-3-11

Issue [signature] 24.3.11

15

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

Letter from Messrs A.Beardsell & Co., dated 22nd April 1910.
do dated 25 January 1911.

Order. No. 104 I Dt 3-4-11

To
The Chief Engr.for Irrign.

Despatched on 5/4/11

The following letter will be sent:-

To

Messrs W.A. Beardsell & Co.,
Madras.

No. 105 I Dt 3-4-11

Gentlemen,

With reference to your letters dated 22-4-1910 and 25th Jany 1911 applying for concession to generate electrical power from the Periyar water falls, I am directed to state that the Government are unable to consider any application for the use of the Periyar water power, which involves the execution of any works by the applicants above the outfall of the tunnel.

~~Issue~~

20/5/10
I

Ordinary Miscellaneous.

Exr 28-3-11 1 pm 8/3/13 Exd 30/3

22-2-21

10-3.27 BIII